Message

Sent: 2/14/2019 5:29:16 PM

Subject: FW: FYI - LA/TX EO state ambient standards)/screening levels

From: Casso, Ruben

Sent: Thursday, April 6, 2017 1:37 PM **To:** Smith, Darcie <Smith.Darcie@epa.gov>

Subject: FYI - LA/TX EO state ambient standards)/screening levels

Louisiana Toxic Air Pollutant Ambient Standard

Ethylene Oxide 1.00 ug/m3 annual average

** Based on unit risk factors and a residual risk of one in ten thousand, or other data determined to be superior by the administrative authority.

Lon	Table	: 51.2 ant Ambient A	Air Standards	
				Standard [14]
Compounds	CAS Number	Class	(µg/m3*) (S Hour Avg.)	(ng/m3**) (Annual Avg.)
Ethylene oxide	75-21-8	1		1.00
Formaldenysie	50-00-8	1		7.69
Glycol ethers [6]	109-86-4	II	571.00	
Hexachloso-1,3-butadiene	87-68-3	II		4.55
Hexachlosobenzene	118-74-1	II		0.20
Hexachiosoethane	67-72-1	II		25.00
n-hexane	110-54-3	Ш	4,190.00	
Hydrazine	302-01-2	П		0.02
Hydrochleric acid	7647-01-0	Ш	180.00	
Hydrofiuszic acid	7664-39-3	Ш	61.90	
Hydrogen cyanide	74-90-8	Ш	260.00	
Hydrogen sulfide	7783-06-4	Ш	330.00	
Maleic anhydride	108-31-6	Ш	23.80	
Manganese (and compounds) [1]	7439-96-5	П	4,76	
Mescury (and compounds) [1]	7439-97-6	П	1.19	
Methanol	67-56-1	Ш	5,240,00	
Methyl ethyl ketone	78-93-3	Ш	14,900.00	
Methyl isobutyl ketone	108-10-1	Ш	4,880.00	
Methyl methacryiste	80-62-6	Ш	9,760.00	
Naphthalene (and Methylnaphthalenes) [12]	91-20-3	II	1.190.00	
Nickel (and compounds) [1]	7440-02-0	I		0.21
Nicipel (refinery dust) [1]	7440-02-8	Ī		0.42
Nitric acid	7697-37-2	Ш	120.00	
Mitrobenzene	98-95-3	П	119.00	
2-nitroprocesne	79-46-9	п		20.00
Phenol	108-95-2	II	452,00	
Phorsene	75-44-5	Ш	9.50	
Phthalic aninviride	85-44-9	ш	145.00	
Polymuclear aromatic invirocarbons [7]	206-44-0	п		0.06
Propionašiehyde	123-38-6	111	4.290.00	
Propylene oxide	75-56-9	1		27.00
Pyrkinse	110-86-1	111	381,00	
Selenium (and compounds) [1]	7782-49-2	II	4.76	
Styrene	100-42-5	I	5.070.00	
Sulfuric acid	7664-93-9	Ш	23.80	
1.1.2.2 tetrachioroethane	79-34-5	II		1.70
Tetrachloso etinviene	127-18-4	II II		105.26
Тойцеве	108-88-3	TIII	8,900,00	
Tobbene-2,4-diisocyanate [8]	584-84-9	п	0.86	
Toluene-2,6-diisocvanate [8]	91-08-7	Ī	0.86	
1.1.1-trichioroethane	71-55-6	III	45,200.00	
1.1.2-trickloroethane	79-00-5	II	300.00.00.00	6.25
Trichloroethyjene	79-01-6	TI II		58.80
Vimil acetate	108-05-4	ui ui	830.00	
Vinvi chloride	75-01-4	1	223.50	1.19
Vinylidene daloride	75-35-4	T II		2.00
Xviene (mixed isomers) [9]	1330-20-7	II II	10,300.00	2,00
Zinc (and compounds) [1] [10] [13]	7440-66-6	UI UI	119.00	

Explanatory Notes:

Concentrations based on $\mu g(x)/m3$, where x is the elemental form of the metal.

- [2] Includes only 2,3,7,2-tetrachlorodibenzo-p-dioxin (TCDD), and octachloredibenso-p-dioxin (OCDD).

 [3] Includes all isomers of chlorinated dibenso-fisans.

 [4] Includes c-, m-, and p-cresol, and mixed isomers.

 [5] Includes 2,4- and 2,6-dimitrotoluene and mixed isomers.

Texas screening levels

TX does not seem to have an air monitoring screening level (AMCV) for EO, but they do have both short-term and longterm effects screening levels (ESLs) for EO

CAS# Phase ST ESLs ug/m3 & ppb LT ESLs ug/m3 & ppb

^{*}Based on one forty-second of the selected occupational exposure level, or other data determined to be superior by the administrative authority.

^{**}Based on unit risk factors and a residual risk of one in ten thousand, or other data determined to be superior by the administrative authority.

	75-									1-							1-
ethylene	21-	-	Not			-			OSHA;	Oct-			-			OSHA;	Oct-
oxide	8	-	Defined	20	10	-	Health	Interim	TLV	03	2	1	. 	Health	Interim	TLV	03

What is the difference between AMCV and ESL?

AMCVs and ESLs are screening levels for ambient air set to protect human health and welfare.

AMCVs are screening levels used in TCEQ's evaluation of ambient air monitoring data to assess the potential for measured concentrations of specific chemicals to cause health or welfare effects. Health-based AMCVs are safe levels at which exposure is unlikely to result in adverse health effects. Long-term AMCVs are similar to the USEPA's inhalation reference concentrations.

ESLs are screening levels used in the TCEQ's air permitting process to establish maximum emission rates that are written into enforceable air permits. Health-based ESLs are set 70 percent lower than the safe level, or AMCV. This additional buffer allows TCEQ to take into account exposure to chemicals from multiple sources in air permit reviews. A more detailed discussion of the differences can be found in Attachment C of the **Uses of ESLs and AMCVs**

<u>Document</u>[10] , or the **<u>Fact Sheet</u>**[11] (which discusses the health-based values used to review air permits and air monitoring data).

Louisiana Toxic Air Pollutant Ambient Standard

1.00 ug/m3 annual average

^{**} Based on unit risk factors and a residual risk of one in ten thousand, or other data determined to be superior by the administrative authority.